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SEQUENCE LISTING

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William D. Henner

<120> HER-2 BINDING ANTAGONISTS

<130> 49321-16

<140> US 09/506,079

<141> 2000-01-19

<150> US 09/234,208

<151> 1999-01-20

<160> 10

<210> 1

<211> 79

<212> PRT

<213> Homo Sapiens

<220>

<221> VARIANT

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<223> Applicants herein disclose Thr and Ser sequence variants at this position

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<221> VARIANT

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<223> Applicants herein disclose Leu and Pro sequence variants at this position

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<223> Applicants herein disclose Pro and Leu sequence variants at this position

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<222> 16

<223> Applicants herein disclose Leu and Gln sequence variants at this position

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<223> Applicants herein disclose Met and Leu sequence variants at this position

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 <223> Applicants herein disclose Met and Leu sequence variants at this position
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 <223> Applicants herein disclose Gly, Asp, Ala and Val sequence variants at this position
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 <223> Applicants herein disclose Leu and Ile sequence variants at this position
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 <223> Applicants herein disclose Pro and Leu sequence variants at this position
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 <223> Applicants herein disclose Asp and Asn sequence variants at this position
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				5					10					15		
Pro	Pro	Gly	Ala	Ala	Ser	Thr	Gln	Val	Cys	Thr	Gly	Thr	Asp	Cys	Lys	
			20					25					30			
Leu	Arg	Leu	Pro	Ala	Ser	Pro	Glu	Thr	His	Leu	Asp	Met	Leu	Arg	His	
		35					40					45				
Leu	Tyr	Gln	Gly	Cys	Gln	Val	Val	Gln	Gly	Asn	Leu	Glu	Leu	Thr	Tyr	
	50					55					60					
Leu	Pro	Thr	Asn	Ala	Ser	Leu	Ser	Phe	Leu	Gln	Asp	Ile	Gln	Glu	Val	
65					70					75					80	
Gln	Gly	Tyr	Val	Leu	Cys	Ala	His	Asn	Gln	Val	Arg	Gln	Val	Pro	Leu	
				85					90					95		
Gln	Arg	Leu	Arg	Ile	Val	Arg	Gly	Thr	Gln	Leu	Phe	Glu	Asp	Asn	Tyr	
			100					105					110			
Ala	Leu	Ala	Val	Leu	Asp	Asn	Gly	Asp	Pro	Leu	Arg	Arg	Thr	Thr	Pro	
		115					120					125				
Val	Thr	Gly	Ala	Ser	Pro	Gly	Gly	Leu	Arg	Glu	Leu	Gln	Leu	Arg	Ser	
	130					135					140					
Leu	Thr	Glu	Cys	Leu	Lys	Gly	Gly	Val	Leu	Ile	Gln	Arg	Asn	Pro	Gln	
145					150					155					160	
Leu	Cys	Tyr	Gln	Asp	Thr	Ile	Leu	Trp	Lys	Asp	Ile	Phe	His	Lys	Asn	
				165					170					175		
Asn	Gln	Leu	Ala	Leu	Thr	Leu	Ile	Asp	Thr	Asn	Arg	Ser	Arg	Ala	Cys	
			180					185						190		
His	Pro	Cys	Ser	Pro	Cys	Cys	Lys	Gly	Ser	Arg	Cys	Trp	Gly	Glu	Ser	
		195					200					205				
Ser	Glu	Asp	Cys	Gln	Ser	Leu	Thr	Arg	Thr	Val	Cys	Ala	Gly	Gly	Cys	
	210					215					220					
Ala	Arg	Cys	Lys	Gly	Pro	Leu	Pro	Thr	Asp	Cys	Cys	His	Glu	Gln	Cys	
225					230					235					240	
Ala	Ala	Gly	Cys	Thr	Gly	Pro	Lys	His	Ser	Asp	Cys	Leu	Ala	Cys	Leu	
				245					250					255		
His	Phe	Asn	His	Ser	Gly	Ile	Cys	Glu	Leu	His	Cys	Pro	Ala	Leu	Val	
			260					265					270			
Thr	Tyr	Asn	Thr	Asp	Thr	Phe	Glu	Ser	Cys	Pro	Asn	Pro	Glu	Gly	Arg	
		275					280						285			
Tyr	Thr	Phe	Gly	Ala	Ser	Cys	Val	Thr	Ala	Cys	Pro	Tyr	Asn	Lys	Leu	
	290					295					300					
Ser	Thr	Asp	Val	Gly	Ser	Cys	Thr	Leu	Val	Cys	Pro	Leu	His	Asn	Gln	
305					310					315					320	
Glu	Val	Thr	Ala	Glu	Asp	Gly	Thr	Gln	Arg	Cys	Glu	Lys	Cys	Ser	Lys	
				325					330					335		
Pro	Cys	Ala	Arg	Gly	Xaa	His	Ser	Xaa	Xaa	Pro	Arg	Pro	Ala	Ala	Val	
			340					345					350			
Pro	Val	Pro	Xaa	Arg	Xaa	Gln	Pro	Xaa	Pro	Ala	His	Pro	Val	Leu	Ser	
		355					360					365				
Phe	Leu	Arg	Pro	Ser	Trp	Asp	Xaa	Val	Ser	Ala	Phe	Tyr	Ser	Leu	Pro	

370		375		380											
Leu	Ala	Pro	Leu	Asp	Pro	Thr	Ser	Val	Xaa	Ile	Ser	Pro	Val	Ser	Val
385					390					395					400
Gly	Arg	Gly	Xaa	Asp	Pro	Asp	Ala	His	Val	Ala	Val	Xaa	Leu	Ser	Arg
				405					410					415	
Tyr Glu Gly															

<210> 3
 <211> 19
 <212> DNA
 <213> Artificial Sequence
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 <223> HER-2-specific oligonucleotide primer

<400> 3
 tgagcaccat ggagctggc 19

<210> 4
 <211> 22
 <212> DNA
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 <223> HER-2-specific oligonucleotide primer

<400> 4
 tccggcagaa atgccaggct cc 22

<210> 5
 <211> 22
 <212> DNA
 <213> Artificial Sequence
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 <223> HER-2 cDNA-specific oligonucleotide primer

<400> 5
 aacacagcgg tgtgagaagt gc 22

<210> 6
 <211> 21
 <212> DNA
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 <223> HER-2 ECDIIIa-region-specific oligonucleotide primer

<400> 6
 ataccgggac aggtcaacag c 21

<210> 7
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 <212> DNA
 <213> Artificial Sequence
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 <223> HER-2 ECDIIIa-region-specific oligonucleotide primer

<400> 7
 tctgggtacc cactcactgc 20

<210> 8
 <211> 22
 <212> DNA
 <213> Artificial Sequence
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 <223> HER-2 exon-specific oligonucleotide primer

<400> 8
 ttcacactgg cacgtccaga cc 22

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 <212> DNA
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 <223> HER-2 cDNA-specific oligonucleotide primer

<400> 9
 gcacggatcc atagcagact gaggagg 27

<210> 10
 <211> 240
 <212> DNA
 <213> Homo Sapiens

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 Gly Xaa His Ser Xaa Xaa Pro Arg Pro Ala Ala Val Pro Val Pro
 5 10 15

cwg cgc atr cag cct gnc cca gcc cac cct gtc cta tcc ttc ctc 90
 Xaa Arg Xaa Gln Pro Xaa Pro Ala His Pro Val Leu Ser Phe Leu
 20 25 30

aga ccc tct tgg gac mta gtc tct gcc ttc tac tct cta ccc ctg 135
 Arg Pro Ser Trp Asp Xaa Val Ser Ala Phe Tyr Ser Leu Pro Leu
 35 40 45

gcc	ccc	ctc	agc	cct	aca	agt	gtc	cst	ata	tcc	cct	gtc	agt	gtg	180
Ala	Pro	Leu	Ser	Pro	Thr	Ser	Val	Xaa	Ile	Ser	Pro	Val	Ser	Val	
				50					55					60	

ggg	agg	ggc	cyg	gac	cct	gat	gct	cat	gtg	gct	gtt	sac	ctg	tcc	225
Gly	Arg	Gly	Xaa	Asp	Pro	Asp	Ala	His	Val	Ala	Val	Xaa	Leu	Ser	
				65					70					75	

cgg	tat	gaa	ggc	tga											240
Arg	Tyr	Glu	Gly												